The only choice for phthalate-free flexible tubing

Ensuring a bacterial-free fluid path in a wide variety of food processing applications.

Tygon $S^{3^{TM}}$ B-44-4X from Saint-Gobain Performance Plastics is now phthalate-free. Saint-Gobain is proud to be among the first companies to offer sustainable flexible tubing products. The bio-based Tygon $S^{3^{TM}}$ line combines the high performance standards customers demand with an eco-friendly tubing design.

Preferred Tubing of the Food Industry

Producers of food, milk and dairy products insist upon Tygon S^{3™} B-44-4X for dependable performance in countless filling, draining, transfer and processing applications. Its smooth, non-porous bore inhibits particle entrapment, promoting a sanitary fluid path by minimizing potential for bacterial growth. It has outstanding resistance to harsh alkaline cleaners and is equally unaffected by commonly used sanitizers.

Lightweight and Flexible

Light in weight and easy to handle, Tygon S^{3™} B-44-4X can be put into service quickly. It readily bends to accommodate abrupt corners and obstructions, requiring a minimum of couplings and fittings. Its flexibility can save up to one-third the footage and much of the labor required to install rigid stainless steel or plastic piping.

Available in Large Bore Sizes

Tygon $S^{3^{10}}$ B-44-4X is available in large bore sizes up to 6" inside diameter, making it a flexible alternative to rigid piping systems. It offers complete clarity for positive visual inspection and flow control.

Reinforced Tubing Available for Elevated Pressure

A special construction of Tygon $S^{3^{TM}}$ B-44-4X is also available to meet applications involving elevated pressure. In these instances, select Tygon® Pressure Tubing, Formulation B-44-4X I.B.

Tygon® Pressure Tubing has the identical product features found in TygonS 3m B-44-4X, with reinforcement added to withstand up to four times the pressure.

Regulatory Standards

Tygon S^{3™} complies with FDA, NSF, 3-A, Japan Food Sanitation Law # 370/1959, REACH, 1935/2004/EC and 10/2011/EU for many foods and beverages. Tygon S^{3™} tubing products do not contain chemicals listed in California's Proposition 65.

* For complete compliance information and appropriate use instructions, please refer to the detailed document of compliance. The complete compliance information and use instructions can be found at www.TygonS3.com.



Tygon S^{3™} B-44-4X Features/Benefits

- Smooth, non-porous bore will not trap particulates or promote bacterial growth
- Compatible with foods containing a high oil content
- Resistant to harsh alkaline cleaners and sanitizers
- Excellent alternative to rigid piping systems
- Contains no BPA or phthalates

Typical Applications*

- Aseptic filling
- · Condiment dispensing
- · Dairy processing
- Vitamin and flavor concentrate systems
- · Soft-serve dispensing



Typical Physical Properties

ASTM Method	Value or Rating
D2240	66
D412	2,200 (15.8)
D412	390
D1004	250 (43.8)
D792	1.21
D570	0.22
D395 Method B	59
D746	-32 (-36)
-	165 (74)
-	1,379 (9.5)
D412-98	57
-	Clear
	Method D2240 D412 D412 D1004 D792 D570 D395 Method B D746 -

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use

TYGON S^{3™} B-44-4X TUBING IS NOT INTENDED FOR USE AS AN IMPLANT MATERIAL.

Tygon S^{3™} B-44-4X

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Saint-Gobain				Max.Working	Vacuum Rating
Part			Minimum Bend	Pressure	In. of Mercury
Number	I.D.	O.D.	Radius, in	at 73°F, psi	at 73°F
AAA0000I	1/32	3/32	1/8	100	29.9
	1/32	1/8	1/8	60	29.9
AAA00002			1/4	100	29.9
AAA00003	1/16	3/16			
AAA00004	3/32	5/32	3/8	43	29.9
AAA00006	1/8	3/16	1/2	34	25.0
AAA00007	1/8	1/4	3/8	60	29.9
AAA00009	5/32	7/32	3/4	28	16.0
AAA00010	5/32	9/32	1/2	50	29.9
AAA000II	3/16	1/4	l Tro	25	11.0
AAA00012	3/16	5/16	5/8	43	29.9
AAA00013	3/16	3/8	1/2	60	29.9
AAA00017	1/4	3/8	1	34	25.0
AAA00018	1/4	7/16	3/4	47	29.9
AAA00019	1/4	1/2	5/8	60	29.9
AAA00022	5/16	7/16	1-3/8	28	16.0
AAA00023	5/16	1/2	I	40	29.9
AAA00024	5/16	9/16	7/8	50	29.9
AAA00025	5/16	5/8	3/4	60	29.9
AAA00027	3/8	1/2	1-3/4	25	11.0
AAA00028	3/8	9/16	1-3/8	34	25.0
AAA00029	3/8	5/8	1-1/8	44	29.9
AAA00032	7/16	9/16	2-1/4	22	8.0
AAA00033	7/16	5/8	1-3/4	30	19.0
AAA00036	1/2	5/8	2-1/8	19	6.0
AAA00037	1/2	11/16	2-1/8	27	14.0
AAA00038	1/2	3/4	1-3/4	34	25.0
AAA00039	1/2	13/16	1-1/2	40	29.9
AAA0004I	9/16	3/4	2-1/2	25	11.0
AAA00045	5/8	13/16	3	23	9.0
AAA00046	5/8	7/8	2-3/8	29	16.0
AAA00047	5/8	15/16	2	35	26.0
AAA00053	3/4	I	3-1/4	25	11.0
AAA00054	3/4	1-1/16	2-3/4	30	18.0
AAA00055	3/4	1-1/8	2-3/8	34	26.0
AAA00057	3/4	1-1/4	2	43	29.9
AAA00059	7/8	1-1/8	4-1/8	22	8.0
AAA00062	I	1-1/4	5-1/8	20	6.0
AAA00063	İ	1-5/16	4-3/8	24	10.0
AAA00064	i	1-3/8	3-3/4	27	14.0
AAA00065	i	1-1/2	3	34	25.0
AAA00067	1-1/8	1-3/8	6-1/4	18	5.0
AAA00070	1-1/4	1-5/8	5-1/2	23	9.0
AAA00073	1-1/2	1-7/8	7-1/4	19	6.0
AAA00074	1-1/2	2	5-7/8	25	11.0
AAA00078	2	2-1/2	9-3/8	19	6.0
AAA00079	2	2-3/4	6-7/8	27	14.0
AAA00080	2	3	5-1/2	34	25.0
AAA05082	2-1/2	3	13-3/8	16	4.0
AAA05082 AAA05083	2-1/2	3-1/4	10	23	9.0
AAA05085	3	3-1/2	18	14	2.0
AAA05086	3	3-1/2	13-1/4	19	6.0
AAA05088	3 4	5	13-1/4	19	6.0
	6		55-3/8	8	
AAA05318	ь	6-1/2	55-3/8	8	0.5

Working pressures are calculated at a 1:5 ratio relative to burst pressure using ASTM D1599.

Unless otherwise noted, all tests were conducted at room temperature ($73^{\circ}F$). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.



Saint-Gobain Performance Plastics

2664 Gilchrist Road Akron, OH 44305 Tel: (800) 798-1554 Tel: (330) 798-9240 Fax: (330) 798-6968 $TYGON @is\ a\ registered\ trademark.$



IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.